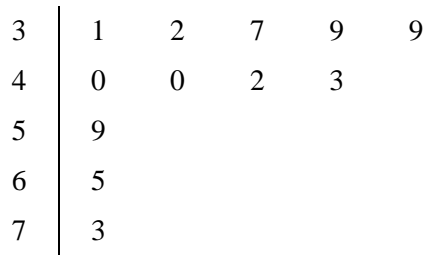


KS3 Questions - Stem & Leaf Diagrams - Level 5 to 6.

1. The stem and leaf diagram shows the number of books on 12 shelves in a library.



Key 3 | 1 represents 31 books

(a) How many of the shelves have less than 40 books?

Answer

(1)

(b) What is the median number of books?

.....

Answer

(1)

(c) What is the range of the number of books?

.....

Answer

(1)

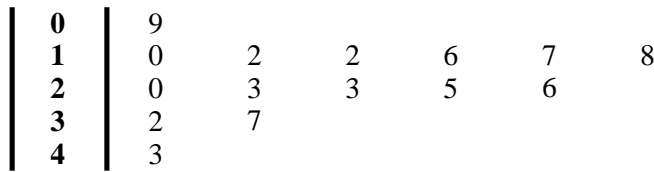
(d) The mean number of books per shelf is 45.

Which average, mean or median, better represents the data?
 Give a reason for your answer.

.....

(1)
(Total 4 marks)

2. The stem and leaf diagram shows the test scores of some pupils.



Key: | 4 | 3 means
a score of 43

(a) What was the lowest score?

Answer

(1)

(b) What was the median score?

.....

Answer

(2)

An extra pupil takes the test and scores 29.

(c) Add this score to the stem and leaf diagram and find the new median score.

.....

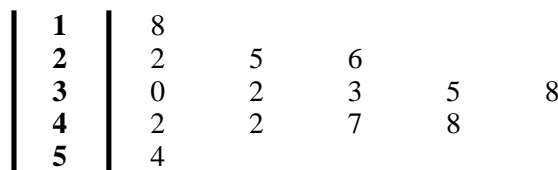
Answer

(3)

(Total 6 marks)

3. The stem and leaf diagram shows some measurements in cm.

Key: | 1 | 8 represents 18 cm



(a) What was the longest measurement?

Answer cm

(1)

(b) How many measurements are shown on the stem and leaf diagram?

Answer

(1)

(Total 2 marks)

4. A rounders coach records the number of rounders the players in her squad scored in a season. All the players scored at least once. She shows the data in a stem and leaf diagram.

Key | 2 | 7 represents 27 rounders scored

0	1	1	2	7
1	2	5	5	
2	3	7		
3	6			
4	0			
5	0	9		

- (a) What is the range of the data?

.....

Answer

(1)

- (b) How many players are there in the squad?

.....

.....

Answer

(1)

- (c) What is the median number of rounders scored?

.....

.....

Answer

(1)

- (d) Calculate the mean number of rounders scored.

.....

.....

.....

Answer

(3)

(Total 6 marks)

5. A taxi-driver keeps a record of how much he spends on petrol each week. The amounts, in pounds, are

30	24	32	15	28	9	18
24	23	36	22	14	19	41

- (a) Draw an ordered stem-and-leaf diagram to show these amounts. Remember to complete the key.

.....

.....

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.....

.....

Key | represents £



(3)

- (b) Work out the range of these amounts.

Answer £

(1)

(Total 4 marks)